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UNIVERSITY OF TORONTO
UNIVERSITY EXTENSION

Session 1961-62

INORGANIC CHEMISTRY

"A MODERN APPROACH"

offered in co-operation with
THE CHEMICAL INSTITUTE OF CANADA
TORONTO SECTION

INORGANIC CHEMISTRY

A Modern Approach

Wednesdays **10 Lectures**

This course, offered in co-operation with the Chemical Institute of Canada, Toronto Section, has been designed for graduate chemists and chemical engineers. It is a refresher course and is one of the series sponsored by the Institute and given yearly through the Division of University Extension. The programme of lectures has been arranged by a staff member of the Department of Chemistry, University of Toronto. Topics which will be covered are:

Chemical Reactions; Atomic Structure and Properties; The Chemical Bond; Stereochemistry; Solution and the Transition Metals.

LECTURER: A. D. Allen, Ph.D.,
Department of Chemistry,
University of Toronto.

TIME: Wednesdays, 7:30 p.m.
commencing October 11th.

PLACE: Room 414, Galbraith Building.

FEE: $25.00.

Registration:

By mail or in person at Room 207, 65 St. George Street, 9 a.m. to 5 p.m. daily, except Saturdays. Information may be obtained by telephoning WA. 3–6611, locals 301, 304, 526, 527. In order to accommodate students and enable them to enrol during the evening, registrations will be taken:

Monday, September 18th,
Wednesday, September 20th,
Monday, September 25th,

from 7:30 to 9 p.m. in the Wallberg Building, corner of St. George and College Streets.

PROGRAMME OF LECTURES

CHEMICAL REACTIONS:

Forces between atoms, the course of chemical reactions, energy changes and activation.

ATOMIC STRUCTURE AND PROPERTIES:

Electronic structure, classification of elements, atomic and ionic radii, ionisation potentials, electronegativity.

THE CHEMICAL BOND:

Valency, the formation of various types of bond and the properties of the resulting compounds.

STEREOCHEMISTRY:

Reasons for the shapes of molecules, bond angles and molecular properties.

SOLUTIONS:

The nature of solutions, solvation, complex formation, oxidation potentials, acids and bases.

TRANSITION METALS:

Some aspects of the chemistry of the transition metals and their compounds, current ideas and problems.